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Application Number	10/714,795
Filing Date	November 17, 2003
First Named Inventor	Li et al.
Art Unit	3732
Examiner Name	
Attorney Docket Number	5853-376

ENCLOSURES (Check all that apply)

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Firm or Individual name	Neil R. Jetter AKERMAN SENTERFITT
Signature	
Date	March 25, 2004

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Application of LI et al.

Application No.: 10/714,795

Examiner:

Date Filed: November 17, 2003

Group: 3732

For: MULTI-FREQUENCY MICROWAVE-INDUCED THERMOACOUSTIC IMAGING OF BIOLOGICAL TISSUE

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Commissioner for Patents
Post Office Box 1450
Alexandria, VA 22313-1450

Date: March 2, 2004

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to the Duty to Disclose under 37 C.F.R. §1.56, Applicants hereby disclose information that may be relevant to the Examiner's consideration of the above-identified application and the patentability of its claims.

In accordance with Rules 56, 97, and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), Form PTO/SB/08B and copies of references cited therein are submitted for consideration by the Examiner. While the references provided in this Information Disclosure Statement may be material to patentability pursuant to 37 C.F.R. § 1.56, it is not intended to constitute an admission that any reference referred to herein is prior art for this invention unless specially designated as such. Also, in accordance with 37 C.F.R. § 1.97(g), the

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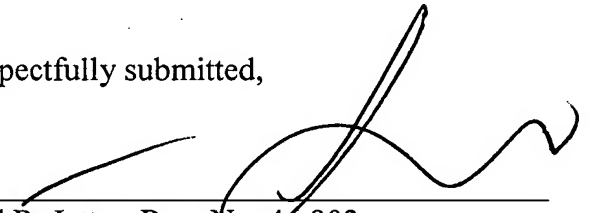


In re: Application of: LI et al.
Application No.: 10/714,795
Filed: November 17, 2003
Group Art Unit: 3732
For: MULTI-FREQUENCY MICROWAVE-INDUCED
THERMOACOUSTIC IMAGING OF BIOLOGICAL TISSUE

filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. § 1.56(a) exists.

This Information Disclosure Statement is being filed before the issuance of a first office action on the merits of the application (37 C.F.R. 1.97(b)(3)); therefore, no fee is believed to be due. However, if any fee is due, the Commissioner is authorized to charge any such fee and any additional fees due or credit any overpayment to Deposit Account No. 50-0951.

Respectfully submitted,



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Docket No. 5853-376



PTO/SB/08B (08-03)

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Application Number	10/714,795
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Art Unit	3732
Examiner Name	
Attorney Docket Number	5853-376

Sheet	2	of	5
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		SUN et al., "Time-frequency analysis for plastic landmine detection via forward-looking ground penetrating radar," IEE Proc.-Radar Sonar Navig., 150:253-261, 2003.	
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		DE JONGH et al., "Design and analysis of new GPR antenna concepts," Delft University of Technology, Faculty of Information Technology and Systems International Research Centre for Telecommunications-transmission and Radar(IRCTR).	
		BUCHENAUER et al., "APERTURE EFFICIENCIES OF IMPULSE RADIATING ANTENNAS," Air Force Research Laboratory/DEHP, 91-108, 1999.	
		STOICA et al., "Robust Capon Beamforming," IEEE Signal Processing Letters, 10:172-175, 2003.	
		YERMAKOV, G., "THE EXACT SOLUTION OF THE PROBLEM OF ULTRA WIDEBAND SIGNALS RADIATION BY A TEM-HORN," DIPED-2002 Proceedings, 42-45.	
		LIU et al., "PULSE RADIATION ANTENNA FEEDED WITH A FACE-TO-FACE TEM HORN," IEEE, 447-450, 2000.	
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		LI et al., "A Confocal Microwave Imaging Algorithm for Breast Cancer Detection," IEEE Microwave and Wireless Components Letters, 11:130-132, 2001.	

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		Art Unit	3732		
Sheet	3	of	5	Examiner Name	
				Attorney Docket Number	5853-376

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		SUROWIEC et al., "Dielectric Properties of Breast Carcinoma and the Surrounding Tissues," IEEE Transactions on Biomedical Engineering, 35:257-263, 1988.	
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		XU et al., "Exact Frequency-Domain Reconstruction for Thermoacoustic Tomography-II: Cylindrical Geometry," IEEE Transactions on Medical Imaging, 21:829-833, 2002.	
		XU et al., "Exact Frequency-Domain Reconstruction for Thermoacoustic Tomography-I: Planar Geometry," IEEE Transactions on Medical Imaging, 21:823-828, 2002.	
		XU et al., "Microwave-induced thermoacoustic tomography using multi-sector scanning," Am. Assoc. Phys. Med., 28:1958-1963, 2001.	
		XU et al., "Time-Domain Reconstruction for Thermoacoustic Tomography in a Spherical Geometry," IEEE Transactions on Medical Imaging, 21:814-822, 2002.	

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Sheet	4	of	5
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NON PATENT LITERATURE DOCUMENTS

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		FEAR et al., "Enhancing BREAST TUMOR DETECTION with Near-Field Imaging," IEEE Microwave Magazine, 48-56, 2002.	
		NATIONAL ACADEMY OF SCIENCES, "Executive Summary," Mammography and Beyond: Developing Technologies for the Early Detection of Breast Cancer, http://www.nap.edu , 2003.	
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		CADY, B., "Breast Cancer in the Third Millennium," Journal of Surgical Oncology, 77:225-232, 2001.	
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		WANG et al., "Microwave-induced acoustic imaging of biological tissues," Rev. Sci. Instrum., 70:3744-3748, 1999.	
		KU et al., "Combining Microwave and Ultrasound: Scanning Thermoacoustic Tomography," Proceedings of the 22nd Annual EMBS International Conference, Chicago, IL, 2321-2323, July 23-28, 2000.	
		CHAN et al., "MICROWAVE-INDUCED THERMOELASTIC TISSUE IMAGING," Biomagnetic and Microwave Imaging, IEEE Engineering in Medicine & Biology Society 10th Annual International Conference, 1988.	

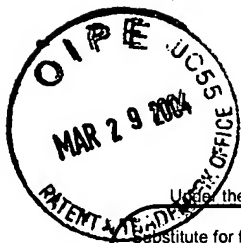
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		HAGNESS et al., "Two-Dimensional FDTD Analysis of a Pulsed Microwave Confocal System for Breast Cancer Detection: Fixed-Focus and Antenna-Array Sensors," IEEE Transactions on Biomedical Engineering, 45:1470-1479, 1998.	
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		GABRIEL et al., "The dielectric properties of Biological tissues: I. Literature survey," Phys. Med. Biol., 41:2231-2249, 1996.	
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